A. This land application ag "Landowner", and <u>Town of</u> until it is terminated in writi the event of a sale of one of identified in this agreement to receive biosolids or indu	reement is made on 5 5 6 here Christiansburg, referred to her ng by either party or, with resp or more parcels, until ownershi t changes, those parcels for wh strial residuals under this agre	between Andrew re as the "Permittee". This a sect to those parcels that are p of all parcels changes. If on the change of the ch	retained by the Landowner in
Landowner: The Landowner is the own agricultural, silvicultural or Exhibit A.	er of record of the real property reclamation sites identified bel	/ located in <u>Pulaski County,</u> ow in Table 1 and identified	Virginia, which includes the on the tax map(s) attached as
	Table 1.: Parcels author	ized to receive biosolids	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
037-1-32A			
037-1-32C			1
		4	
1. Notify the purchase later than the date 2. Notify the Permittee The Landowner has no oth notify the Permittee immed.	wner sells or transfers all or pa est date of biosolids application er or transferee of the applicabl of the property transfer; and e of the sale within two weeks er agreements for land applical lately if conditions change such of this agreement becomes inva	, the Landowner shall: e public access and crop m following property transfer. tion on the fields identified h that the fields are no longe	anagement restrictions no nerein. The Landowner will er available to the Permittee
above and in Exhibit A. The identified above, before, du	nts permission to the Permittee e Landowner also grants perm ring or after land application of plicable to such application.	ission for DEO staff to condi	uct inspections on the land
Andrew Cullip Landowner – Printed Name, Title 6346 Courtney Ln, Dublin, Mailing Address		elf	
VPDES Permit Regulation and	ermittee, agrees to apply biosolids in amounts not to exceed the rate on certified in accordance with §10	s identified in the nutrient man	agement plan prepared for each
The Permittee agrees to notify	the Landowner or the Landowner's ar application to the Landowner's	s designee of the proposed so	hedule for land application and

☐ I reviewed the documents assigning signatory authority to the person signing for landowner above. I will make a copy of this document available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Signature

Randy Wingfield, Town Manager Permittee – Authorized Representative

Printed Name

100 E. Main St., Christiansburg, VA 24073

Mailing Address

#### LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: Town of Christiansburg County or City: Christiansburg, VA

Landowner: Andrew Cullip

#### Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

#### 2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

#### 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
  residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
  nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
  Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Rev 9/14/2012

Date

Page 2 of 2

#### **LAND APPLICATION AGREEMENT - BIOSOLIDS**

#### **Landowner Coordination Form**

Permittee: Town of Christiansburg

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

County or City: Christiansburg, VA				
Please Print	(Signatures not required on this page)			
Tax Parcel ID(s)	<u>Landowner(s)</u>			
037-1-32A	Andrew Cullip and Rebecca Cullip			
037-1-32C	Andrew Cullip and Rebecca Cullip			

Rev 9/14/2012 Page 1 of 1

A. This land application ag "Landowner", and <u>Town of</u> until it is terminated in writing the event of a sale of one of identified in this agreement	GREEMENT - BIOSOLIDS reement is made on 51515 Christiansburg, referred to he ng by either party or, with resport more parcels, until ownership changes, those parcels for wistrial residuals under this agreement.	between Rebecca ( re as the "Permittee". This agent to those parcels that are report all parcels changes. If our port all parcels changes are the port of all parcels changes are the port of all parcels changed and the parcels are the port of all parcels changed are the port of the parcels are the parc	Cullip, referred to here as greement remains in effect retained by the Landowner in whership of individual parcels
Landowner: The Landowner is the owner agricultural, silvicultural or Exhibit A.	er of record of the real propert reclamation sites identified bel	y located in <u>Pulaski County,</u> V ow in Table 1 and identified o	'irginia, which includes the n the tax map(s) attached as
	Table 1.: Parcels author	ized to receive biosolids	and
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
037-1-32A			
037-1-32C			
In the event that the Landon within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permittee	e Landowner is the sole owner the Landowner is one of multiple where sells or transfers all or past date of biosolids application or transferee of the applicable of the property transfer; and the of the sale within two weeks	e owners of the properties ident art of the property to which bion and the Landowner shall: the public access and crop man following property transfer.	ntified herein. Isolids have been applied Inagement restrictions no
notify the Permittee immedi	er agreements for land applica ately if conditions change sucl f this agreement becomes inva	that the fields are no longer	available to the Permittee
above and in Exhibit A. The	nts permission to the Permitted Landowner also grants permiting or after land application of licable to such application.	ission for DEQ staff to conduct	ct inspections on the land
Debeses Collin		195 10	0 00
Rebecca Cullip Landowner – Printed Name, Title 6346 Courtney Ln, Dublin, \ Mailing Address		welten old	<del>2</del>
VPDES Permit Regulation and	rmittee, agrees to apply biosolids in amounts not to exceed the rate on certified in accordance with §1	es identified in the nutrient manage	gement plan prepared for each

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

□ I reviewed the documents assigning signatory authority to the person signing for landowner above. I will make a copy of this document available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Randy Wingfield, Town Manager

Permittee - Authorized Representative Printed Name

100 E. Main St., Christiansburg, VA 24073

Mailing Address

#### LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: Town of Christiansburg County or City: Christiansburg, VA

Landowner: Rebecca Cullip

#### Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be compiled with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

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- Public access to land with a low potential for public exposure shall be restricted for at least 30 days
  following any application of biosolids. No biosolids amended soil shall be excavated or removed from
  the site during this same period of time unless adequate provisions are made to prevent public
  exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

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- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

#### 4. Livestock Access Restrictions:

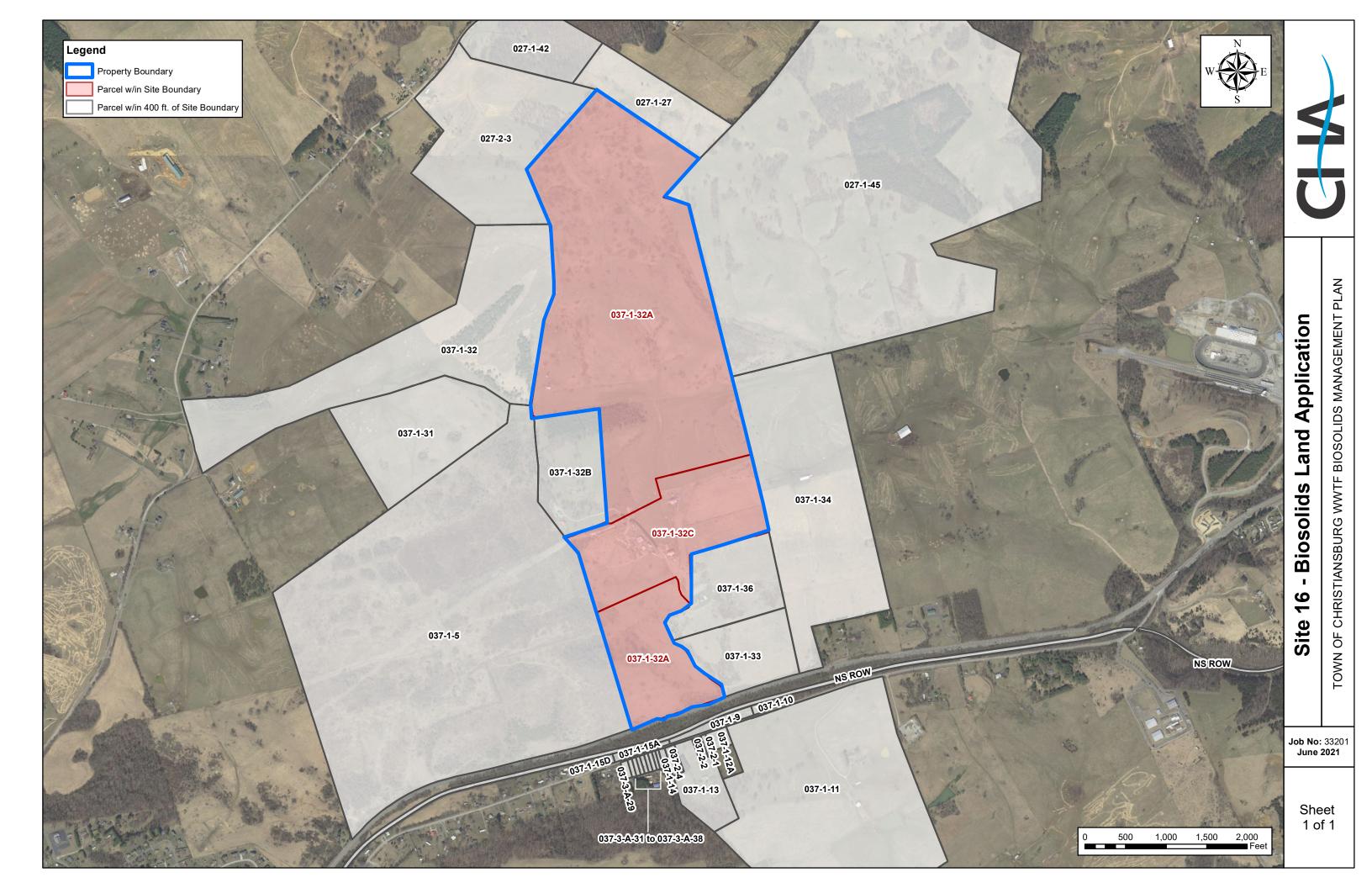
Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
  residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
  nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
  Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

Page 2 of 2



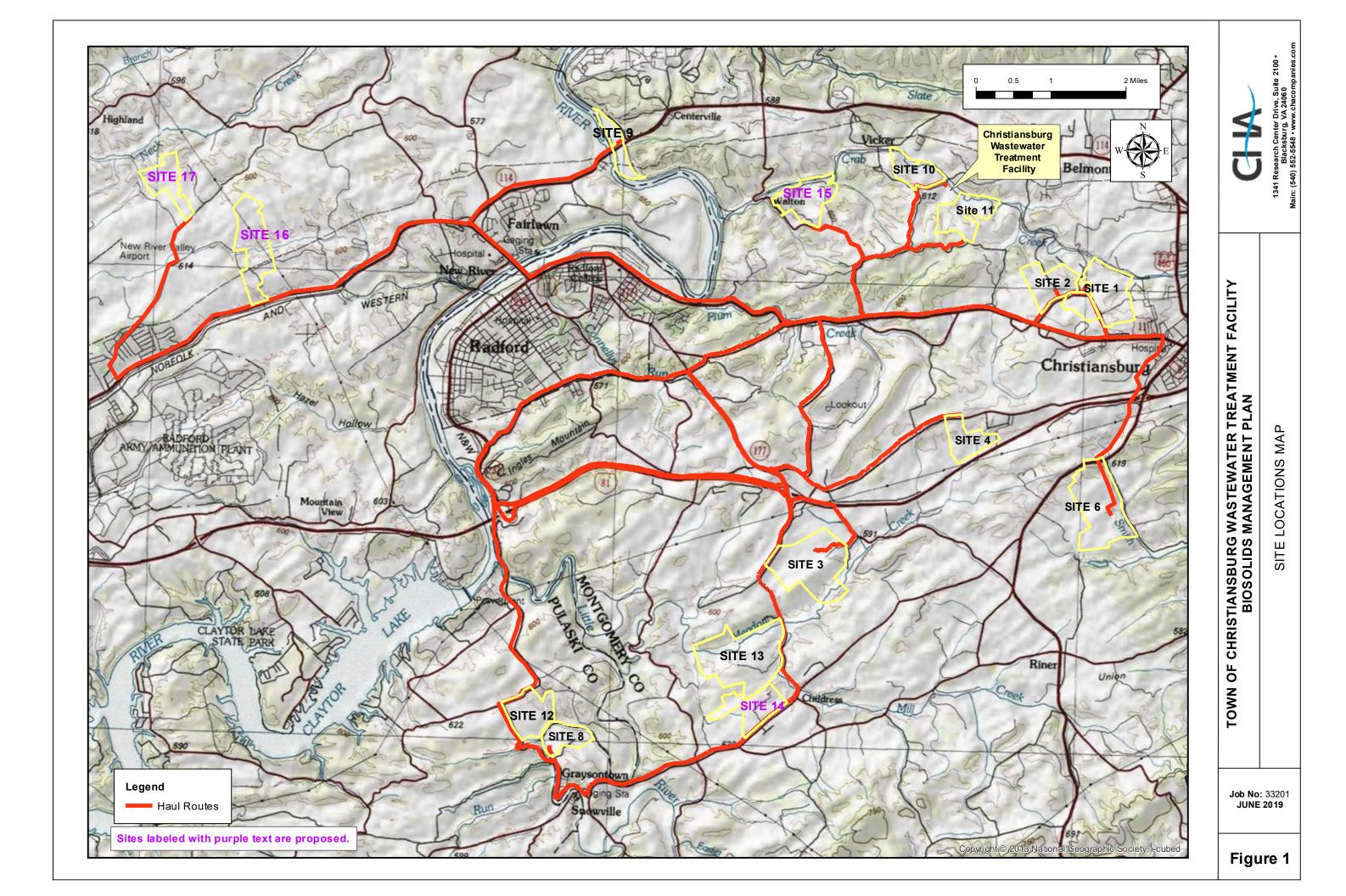
1 Research Center Drive, Suite

# CHRISTIANSBURG WASTEWATER TREATMENT FACILITY BIOSOLIDS MANAGEMENT PLAN ОЕ TOWN

GENERAL LOCATIONS MAP

Job No: 33201 JUNE 2019

Sheet 1 of 1



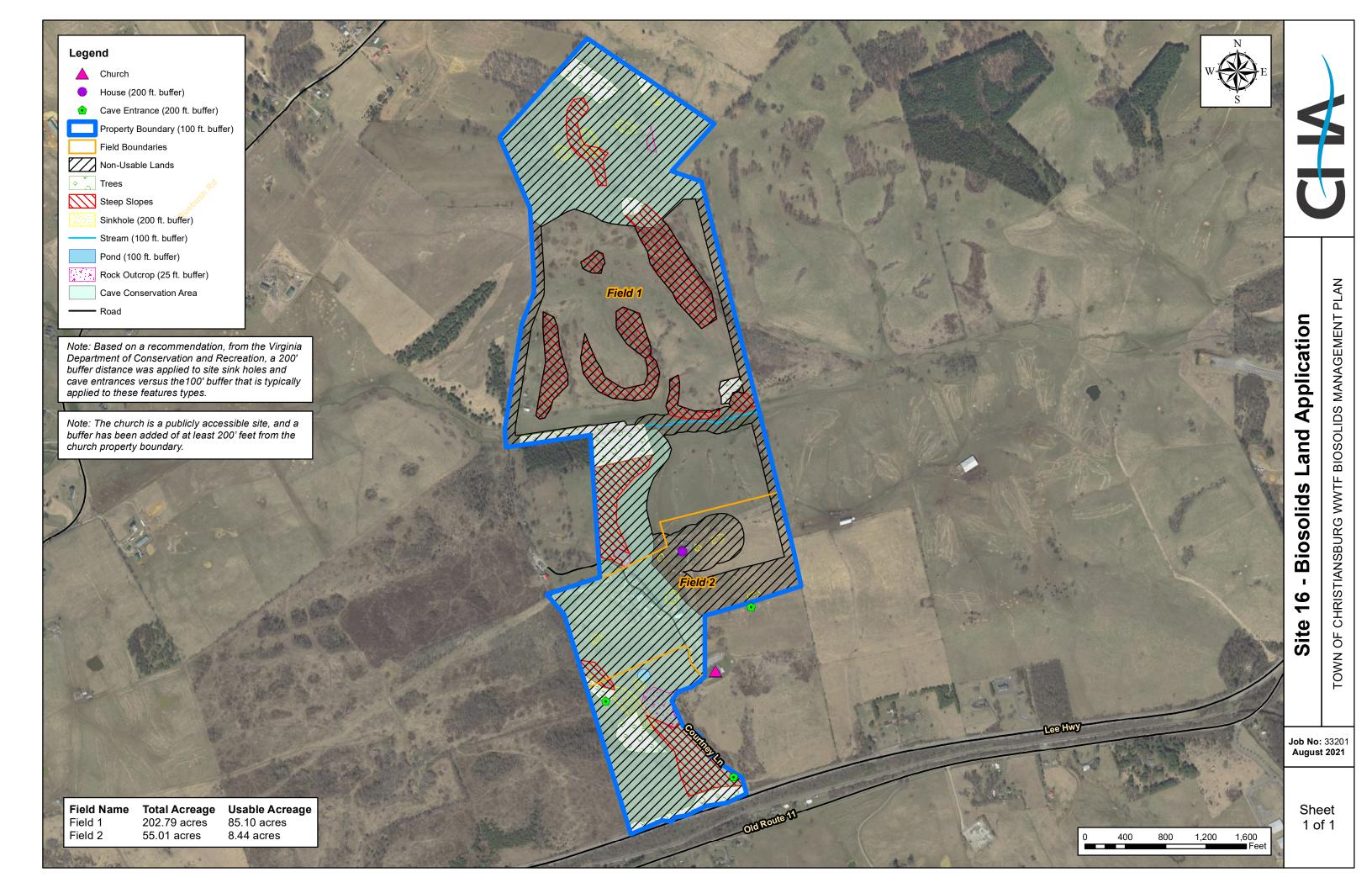
**≰** 

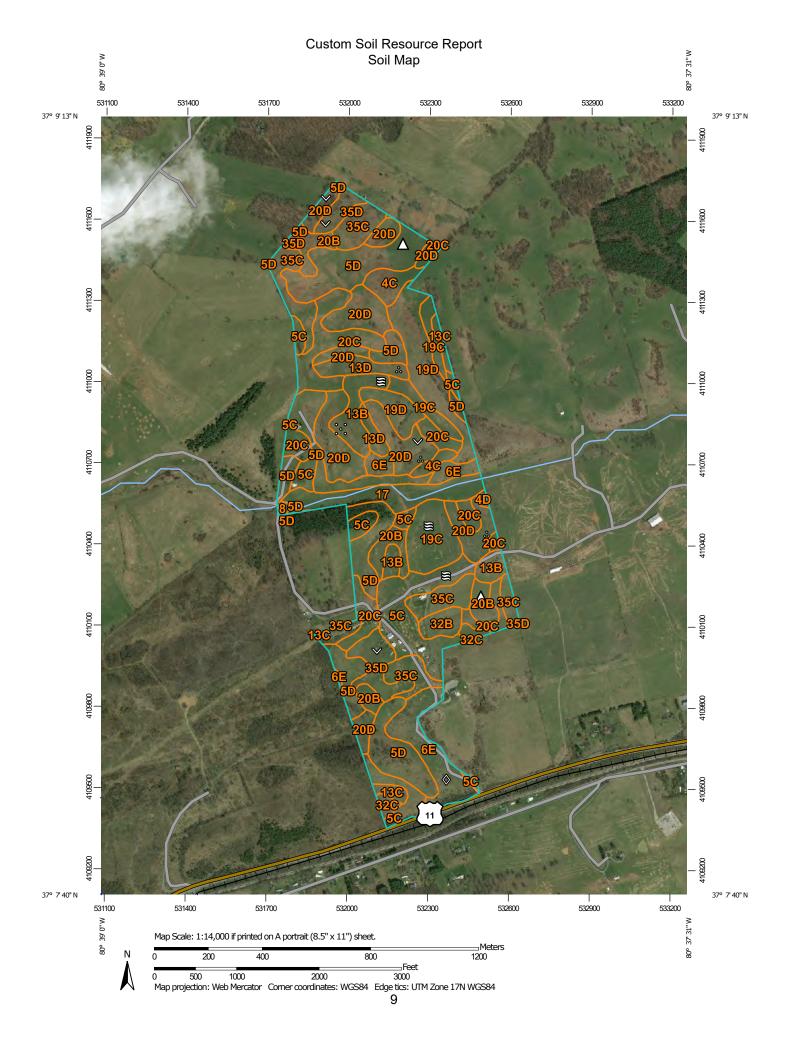
# CHRISTIANSBURG WASTEWATER TREATMENT FACILITY BIOSOLIDS MANAGEMENT PLAN **TOWN OF**

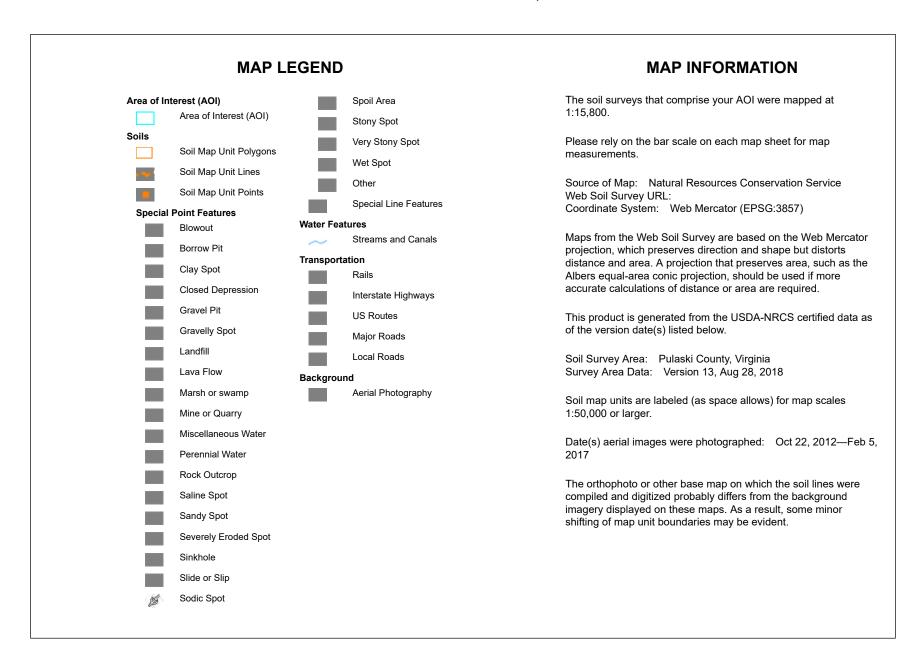
GENERAL LOCATION MAP - SITE 16

Job No: 33201 JUNE 2019

Sheet 1 of 1







# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4C	Carbo silty clay loam, 7 to 15 percent slopes	6.0	2.1%
4D	Carbo silty clay loam, 15 to 35 percent slopes	0.5	0.2%
5C	Carbo silty clay loam, very rocky, 7 to 15 percent slopes	28.8	9.8%
5D	Carbo silty clay loam, very rocky, 15 to 30 percent slopes	53.7	18.3%
6E	Carbo-Rock outcrop complex, 10 to 45 percent slopes	17.3	5.9%
8	Dunning silty clay loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	0.5	0.2%
13B	Groseclose and Poplimento silt loams, 2 to 7 percent slopes	11.4	3.9%
13C	Groseclose and Poplimento silt loams, 7 to 15 percent slopes	2.8	0.9%
13D	Groseclose and Poplimento silt loams, 15 to 30 percent slopes	7.0	2.4%
17	Lindside-Nolin silt loams	13.1	4.5%
19C	Lodi gravelly loam, 7 to 15 percent slopes	16.9	5.8%
19D	Lodi gravelly loam, 15 to 30 percent slopes	19.7	6.7%
20B	Lowell silt loam, 2 to 7 percent slopes	11.1	3.8%
20C	Lowell silt loam, 7 to 15 percent slopes	24.6	8.4%
20D	Lowell silt loam, 15 to 30 percent slopes	37.8	12.9%
32B	Slabtown silt loam, 2 to 7 percent slopes	3.5	1.2%
32C	Slabtown silt loam, 7 to 15 percent slopes	2.3	0.8%
35C	Wurno-Newbern-Faywood silt loams, 7 to 15 percent slopes	25.0	8.5%
35D	Wurno-Newbern-Faywood silt loams, 15 to 30 percent slopes	11.2	3.8%
Totals for Area of Interest		293.3	100.0%